

**Amendments to the Claims**

This listing of claims will replace all the prior revisions, and listings of claims in this application.

**Listing of Claims**

(Currently Amended) A munitions propellant ~~comprising~~ consisting of:

2 an alcohol-wet nitrocellulose component ~~comprising~~ consisting essentially of about  
3 65.0% to about 95.0% of the ~~gun~~ munitions propellant by weight, said  
4 nitrocellulose component having a Nitrogen proportion of substantially 12.6%  
5 Nitrogen;

6 an energetic plasticizer component ~~comprising~~ consisting esstntially of about 5% to  
7 about 35% of the ~~gun~~ munitions propellant by weight, said energetic plasticizer  
8 component comprising N-Butyl-2-Nitratoethyl Nitramine (BuNena);

9 a burning rate moderator and stabilizer component ~~comprising~~ consisting essentially  
10 of from about one-half of one percent (0.5%) to about five percent (5.0%) of the  
11 ~~gun~~ munitions propellant by weight, wherein the burning rate moderator and  
12 stabilizer component is one selected from the group consisting of: Sym-Diethyl  
13 Diphenyl Urea, N,N'-Diethyl Carbanilide (Ethyl Centralite, Centralite I); and N-  
14 Methyl-N',N'-Diphenyl Urea (Akardite II); and

15 a stabilizer component ~~comprising~~ consisting essentially of about one-half of one  
16 percent (0.5%) to about five percent (5.0%) of the ~~gun~~ munitions propellant by  
17 weight, and ~~comprising~~ consisting of Acetyl triethyl citrate (ATEC).

2. (Currently Amended) The munitions propellant of claim 1 wherein the nitrocellulose  
2 component ~~comprising~~ which is about 65.0% to about 95% of the ~~gun~~ munitions propellant  
3 by weight is a combination of a first nitrocellulose composition having a Nitrogen proportion  
4 of about 13.4% Nitrogen and a second nitrocellulose composition having a Nitrogen

5 proportion of about 11.3% Nitrogen, such that the combination has an average Nitrogen  
6 proportion of about 12.6% Nitrogen.

1 3. (Currently Amended) The gun munitions propellant of claim 1, further ~~comprising~~  
2 consisting essentially of additional components, wherein the additional components  
3 ~~comprising~~ are less than about 5% of the munitions propellant by weight and consist of  
4 ~~include~~ a first additional component, ~~comprising~~ which is about 1.0% to 2.0% of the  
5 munitions propellant by weight, said first additional component ~~comprising~~ consisting  
6 essentially of graphite; a second additional component, ~~comprising~~ which is about 1.0% to  
7 2.0% of the guns munitions propellant by weight, said second additional component  
8 ~~comprising~~ consisting essentially of Potassium Sulfate; and a third additional component  
9 ~~comprising~~ which is about 1.0% to 2.0% of the munitions propellant by weight, said third  
10 additional component ~~comprising~~ consisting essentially of Candelilla Wax.

1 4. (Currently Amended) The gun munitions propellant of claim 2, further ~~comprising~~  
2 consisting essentially of additional components, wherein the additional components  
3 ~~comprising~~ are less than about 5% of the gun munitions propellant by weight and consist of  
4 ~~includes~~ a first additional component, ~~comprising~~ which is about 1.0% to 2.0% of the  
5 munitions propellant by weight, said first additional component ~~comprising~~ consisting  
6 essentially of graphite; a second additional component, ~~comprising~~ which is about 1.0% to  
7 2.0% of the gun munitions propellant by weight, said second additional component  
8 ~~comprising~~ consisting essentially of Potassium Sulfate; and a third additional component  
9 ~~comprising~~ which is about 1.0% to 2.0% of the gun munitions propellant by weight, said  
10 third additional component ~~comprising~~ consisting essentially of Candelilla Wax.

5. (Currently Amended) The gun munitions propellant of claim 4, wherein the nitrocellulose  
2 component is prepared using organic solvents consisting essentially of Acetone, Ethyl  
3 Acetate and Di-Ethyl Ether.